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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/710,299	07/01/2004	Lisa Wu		4298
37754 GMORPHER I	7590 04/05/200° NC.		EXAMINER	
P.O Box 9			SANDERS, AARON J	
FORT LEE, NJ 07024			ART UNIT	PAPER NUMBER
			2168	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		04/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/710,299	WU, LISA				
		Examiner	Art Unit				
		Aaron J. Sanders	2168				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠	Responsive to communication(s) filed on 26 Fe	ebruary 2007.					
•	This action is FINAL . 2b) ☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) 🗀	5) Claim(s) is/are allowed.						
6)⊠	6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[Claim(s) are subject to restriction and/or	r election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examine	r.					
10) 🔲 🤄	The drawing(s) filed on is/are: a) ☐ acce	epted or b) \square objected to by the \square	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	ected to. See 37 CI	FR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application							
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	6) Other:	atoni Application				

DETAILED ACTION

Response to Amendment

This Office action has been issued in response to amendment filed 26 February 2007.

Claims 1-9 are pending. Applicant's arguments have been carefully and respectfully considered, and some are persuasive, while others are not. Accordingly, objections and rejections have been removed where arguments were persuasive, but rejections have been maintained where arguments were not persuasive. Accordingly, claims 1-9 are rejected, and this action has been made FINAL, as necessitated by amendment.

Applicant should submit an argument under the heading "Remarks" pointing out disagreements with the examiner's contentions. Applicant must also discuss the references applied against the claims, explaining how the claims avoid the references or distinguish from them. A "Table of Response" is not proper form. Rather, the arguments should be in paragraph form and refer to specific limitations or rejections/objections of the claims.

Claim Objections

As per claims 1, 4, and 7, the phrase "creating dynamic API" appears to be grammatically incorrect. It should read, "creating a dynamic API".

Claim Rejections - 35 USC § 112 First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2, 5, and 8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

Claims 2, 5, and 8 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claims contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Specifically, "a pair of dynamic accessor and mutator" is not defined in the specification or the instant claims.

Claim Rejections - 35 USC § 112 Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 4, and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 4, and 7 recite the limitation "the relationships of said structured data tables".

There is insufficient antecedent basis for this limitation in the claims because no "relationships" have been defined.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-9 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-9 are directed to a method/system/computer program product for building a native XML object database. The claimed subject matter lacks a practical application of a judicial exception (law of nature, abstract idea, naturally occurring article/phenomena) since it fails to produce a useful and tangible result.

Specifically, the claimed subject matter does not produce a useful result because the claimed subject matter fails to sufficiently reflect at least one practical utility set forth in the descriptive portion of the specification. More specifically, while the described practical utility (utilities) is (are) directed to building a native XML object database, the claimed subject matter relates ONLY to creating files and directories that map the relationships of said structured data tables.

Further, the claimed subject matter does not produce a tangible result because the claimed subject matter fails to produce a result that is limited to having real world value rather than a result that may be interpreted to be abstract in nature as, for example, a thought, a computation, or manipulation of data. More specifically, the claimed subject matter provides for creating files and directories. This produced result remains in the abstract because it is not clear where the files are created and whether or not they are output to another system or to a user. Thus, the result fails to achieve the required status of having real world value.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Chau et al., U.S. P.G. Pub. 2002/0133484.

As per claims 1-9, Chau et al. teach:

- 1. A method of building a native XML object database, comprising steps of: creating dynamic API to manipulate structured data tables; creating files and directories that map the relationships of said structured data tables (See e.g. [0075], "A user can decide how structured XML documents are to be stored or created through a Document Access Definition (DAD)" and [0076], "The DAD associates XML documents to a database through two major access and storage techniques by defining elements Xcolumn and Xcollection" where, see [0134], a "user defines a DAD. With the help of a Graphical User Interface (GUI) tool, the user can create a DAD to define a mapping and indexing scheme").
- 2. The method according to claim 1, wherein the API creating step further comprises the step of creating a pair of dynamic accessor and mutator for each column of said structured data tables (See e.g. [0076], "The DAD associates XML documents to a database through two major access and storage techniques by defining elements Xcolumn and Xcollection. Xcolumn defines how to store and retrieve entire XML documents as column data of the XML user defined type

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(UDT)" and [0080], "An Xcollection defines how to decompose XML documents into a collection of relational tables or to compose XML documents from a collection of relational tables An XML collection is a virtual name of a set of relational tables").

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- 3. The method according to claim 1, wherein the file creating step further comprises the step of creating one native XML file to store each row of said structured data tables (See e.g. [0077], "In particular, an XML column is used to store entire XML documents in the native XML format" where, see [0078], "The XML System provides several user defined types (UDTs) for XML columns. These data types are used to identify the storage types of XML documents in the application table. The XML System supports legacy flat files").
- 4. A system for building a native XML object database, comprising means for: creating dynamic API to manipulate structured data tables; creating files and directories that map the relationships of said structured data tables (See e.g. [0075], "A user can decide how structured XML documents are to be stored or created through a Document Access Definition (DAD)" and [0076], "The DAD associates XML documents to a database through two major access and storage techniques by defining elements Xcolumn and Xcollection" where, see [0134], a "user defines a DAD. With the help of a Graphical User Interface (GUI) tool, the user can create a DAD to define a mapping and indexing scheme").
- 5. The system according to claim 4, wherein the means for creating API further comprises means for creating a pair of dynamic accessor and mutator for each column of said structured data tables (See e.g. [0076], "The DAD associates XML documents to a database through two major access and storage techniques by defining elements Xcolumn and Xcollection. Xcolumn defines how to store and retrieve entire XML documents as column data

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of the XML user defined type (UDT)" and [0080], "An Xcollection defines how to decompose XML documents into a collection of relational tables or to compose XML documents from a collection of relational tables An XML collection is a virtual name of a set of relational tables").

- 6. The system according to claim 4, wherein the means for creating file further comprises means for creating one native XML file to store each row of said structured data tables (See e.g. [0077], "In particular, an XML column is used to store entire XML documents in the native XML format" where, see [0078], "The XML System provides several user defined types (UDTs) for XML columns. These data types are used to identify the storage types of XML documents in the application table. The XML System supports legacy flat files").
- 7. A computer program product for building a native XML object database, the computer program product embodied on one or more computer-readable media and comprising computer-readable program code means for: creating dynamic API to manipulate structured data tables; creating files and directories that map the relationships of said structured data tables (See e.g. [0075], "A user can decide how structured XML documents are to be stored or created through a Document Access Definition (DAD)" and [0076], "The DAD associates XML documents to a database through two major access and storage techniques by defining elements Xcolumn and Xcollection" where, see [0134], a "user defines a DAD. With the help of a Graphical User Interface (GUI) tool, the user can create a DAD to define a mapping and indexing scheme").
- 8. The computer program product according to claim 7, wherein the means for creating API further comprises means for creating a pair of dynamic accessor and mutator for each column of said structured data tables (See e.g. [0076], "The DAD associates XML documents to a database through two major access and storage techniques by defining elements Xcolumn and

Xcollection. Xcolumn defines how to store and retrieve entire XML documents as column data of the XML user defined type (UDT)" and [0080], "An Xcollection defines how to decompose XML documents into a collection of relational tables or to compose XML documents from a collection of relational tables An XML collection is a virtual name of a set of relational tables").

9. The computer program product according to claim 7, wherein the means for creating file further comprises means for creating one native XML file to store each row of said structured data tables (See e.g. [0077], "In particular, an XML column is used to store entire XML documents in the native XML format" where, see [0078], "The XML System provides several user defined types (UDTs) for XML columns. These data types are used to identify the storage types of XML documents in the application table. The XML System supports legacy flat files").

10-18. (Canceled)

Response to Arguments

Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new grounds of rejection.

As per Applicant's argument that the API is dynamic in that it varies with column/field name, the Examiner respectfully asserts that the specification does not define "dynamic" as such. "Dynamic" has a broad definition in the art and it is not clear from the specification that Applicant defines the term as currently argued.

Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Mullins et al., U.S. P.A. Pub. 2003/0208505; Manikutty et al., U.S. Pat. 6,836,778; Pal et al., U.S. P.A. Pub. 2005/0091231; and Zhou et al., U.S. P.A. Pub. 2005/0138052.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron J. Sanders whose telephone number is 571-270-1016. The examiner can normally be reached on M-Th 8:00a-5:00p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vo Tim can be reached on 571-272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AJS

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